

PPI Project: 3rd Year
3rd Quarter progress Report (Mar - May' 2021)

“Addressing drinking water quality & health issues through sustainable bio filter technology in rural villages of Morni hills, Panchkula (Haryana)”

Submitted to:

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A. Details of activities implemented during 3rd quarter (Mar-May'21) of 3rd Year

i. Village level awareness meetings

During Q3, SATHI conducted village level awareness meetings in *Sharla Bhiwar*, *Sonthal Chan*, *Dharla* & *Bhoj Mator (Maanana)* project villages. Key objective of organizing village level meeting was to encourage beneficiaries for regular use of bio-sand water filters. SATHI followed necessary COVID-19 precautions during meeting. Beneficiary families also shared their views about impact of PPI supported bio-sand filter programme.

ii. Bio-Sand Filter Development, Testing, Transportation & Installation

Till end of Q2 (3rd Year), proposed PPI beneficiaries deposited their upfront contribution for filter installation & SATHI successful installed 49 no. filters. During Q3, SATHI covered remaining 16 families. Due to quality concern issues, SATHI constructed concrete filters at Thakurdwara campus. To assure quality in filter construction process, SATHI technical expert regularly monitored the site. After construction, filters were kept under curing & water leakage testing for 5-7 days. Once getting satisfied with all requisite parameters, SATHI team made proper finishing in filter through wall putty, paint coating, fixing of diffuser plate etc. Thereafter filters were transported to project village & installed (filled with filter media, fixing diffuser plate, lid, water testing etc) by SATHI at respective beneficiaries households. Beneficiaries were encouraged for regular use of filters.

Table: Distribution of filter during Q3 (Mar-May'21)

| Filter No. | Name of Beneficiary | Name of Village | Name of Gram Panchayat | Block, District |
|------------|---------------------|-----------------|------------------------|------------------|
| 50 | Kamla Devi | Dhaaman | Bhoj Tipra | Morni, Panchkula |
| 51 | Durga Devi | Dhaaman | Bhoj Tipra | Morni, Panchkula |
| 52 | Prem Lata | Dhaaman | Bhoj Tipra | Morni, Panchkula |
| 53 | Sushma DEVI | Dhaaman | Bhoj Tipra | Morni, Panchkula |
| 54 | Urmila Devi | Dhaaman | Bhoj Tipra | Morni, Panchkula |
| 55 | Parwati Devi | Dhaaman | Bhoj Tipra | Morni, Panchkula |
| 56 | Reenu Bala | Dhaaman | Bhoj Tipra | Morni, Panchkula |
| 57 | Dayawanti | Dhaaman | Bhoj Tipra | Morni, Panchkula |
| 58 | Ritu | Kharag | Bhoj Dharti | Morni, Panchkula |
| 59 | Dhanvanti | Kharag | Bhoj Dharti | Morni, Panchkula |
| 60 | Satya | Kharag | Bhoj Dharti | Morni, Panchkula |
| 61 | Dharmi Devi | Kharag | Bhoj Dharti | Morni, Panchkula |
| 62 | Kamlesh Devi | Kharag | Bhoj Dharti | Morni, Panchkula |
| 63 | Sunita Devi | Kharag | Bhoj Dharti | Morni, Panchkula |
| 64 | Reshmi Devi | Kharag | Bhoj Dharti | Morni, Panchkula |
| 65 | Kranti | Kharag | Bhoj Dharti | Morni, Panchkula |

iii. User education & distribution of IEC Material

After bio-sand filter installation, SATHI educated & trained the beneficiary community about filter uses and O&M (Operation and Maintenance). To achieve this objective, SATHI firstly developed educational material such as brochure, wall poster & stickers. Brief details of bio-sand filter, technical specifications, and its uses etc are highlighted in brochure and wall poster. In addition, name of funding agency, implementing organization, filter number, year, technical assistance contact etc are clearly mentioned through stickers placed on outer wall of installed filter. During Q3 (March-May'21), SATHI distributed filter educational material to 16 target families .

iv. User Follow-Up

During last week of April '21 (26th – 28th Apr' 2021), SATHI team carried out follow up visit to 28 beneficiaries covered during 2nd quarter (3rd year) of PPI project. Data of follow up visit tabulated in Multi Follow-Up Visit Monitoring Form, which is as follows:-

Bio-sand Filter Multi Follow - Up Visit Monitoring Form

Date of Follow-Up: 26th – 28th Apr'2021

✓ If acceptable
X If unacceptable

| Filter Number | HH/Beneficiary Name | Flow rate (ml/min) | Flow Rate less than 400 ml/min | Diffuser OK | Surface of sand is flat & level | Standing water depth 4 to 6 cm | Water poured into filter is not too dirty | Filter used every day | Filter & outlet spout clean | Safe storage |
|---------------|---------------------|--------------------|--------------------------------|-------------|---------------------------------|--------------------------------|---|-----------------------|-----------------------------|--------------|
| 22 | Vimla Devi | 400 ml/min | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 23 | Manju Devi | 410 ml/min | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 24 | Tara Devi | 320 ml/min | X | ✓ | ✓ | X | ✓ | X | ✓ | X |
| 25 | Hem Lata | 300 ml/min | X | ✓ | X | X | ✓ | X | X | ✓ |
| 26 | Sita Devi | 400 ml/min | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 27 | Promila Devi | 405 ml/min | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 28 | Pooja Devi | 420 ml/min | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 29 | Santosh Devi | 400 ml/min | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 30 | Kamla Devi | 410 ml/min | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 31 | Roma Devi | 320 ml/min | X | ✓ | ✓ | X | ✓ | X | ✓ | X |
| 32 | Meena Devi | 400 ml/min | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 33 | Urmila Devi | 300 ml/min | X | ✓ | X | X | ✓ | X | X | ✓ |
| 34 | Promila Devi | 420 ml/min | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 35 | Kamla Devi | 405 ml/min | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 36 | Ritu Thakur | 400 ml/min | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 37 | Rajni Devi | 410 ml/min | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |

| | | | | | | | | | | |
|----------------|-----------------|------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| 38 | Mamta Devi-I | 415 ml/min | √ | √ | √ | √ | √ | √ | √ | √ |
| 39 | Meena Kumari | 400 ml/min | √ | √ | √ | √ | √ | √ | √ | √ |
| 40 | Manjeet Devi | 410 ml/min | √ | √ | √ | √ | √ | √ | √ | √ |
| 41 | Sapana Devi | 400 ml/min | √ | √ | √ | √ | √ | √ | √ | √ |
| 42 | Saroj Devi | 400 ml/min | √ | √ | √ | √ | √ | √ | √ | √ |
| 43 | Nirmala Devi-I | 420 ml/min | √ | √ | √ | √ | √ | √ | √ | √ |
| 44 | Oma Devi | 400 ml/min | √ | √ | √ | √ | √ | √ | √ | √ |
| 45 | Shakuntala Devi | 320 ml/min | X | √ | X | X | √ | X | X | X |
| 46 | Roma Sharma | 400 ml/min | √ | √ | √ | √ | √ | √ | √ | √ |
| 47 | Krishana Devi | 405 ml/min | √ | √ | √ | √ | √ | √ | √ | √ |
| 48 | Nirmala Devi-II | 420 ml/min | √ | √ | √ | √ | √ | √ | √ | √ |
| 49 | Mamta Devi-II | 400 ml/min | √ | √ | √ | √ | √ | √ | √ | √ |
| TOTAL √ | | | 23 | 28 | 25 | 23 | 28 | 23 | 25 | 25 |
| TOTAL X | | | 5 | 0 | 3 | 5 | 0 | 5 | 3 | 3 |

Technician: Mr. Mohit Sharma, Supervisor: Mr. Desh Raj

As analyzed from user follow-up data; out of 28 families which were covered under Q3 (3rd year) follow-up visit, 23 are using filter regularly. 05 families which were not using filter encouraged to use it on regular basis. Families which are using filter regularly are very satisfied with the quality of water filtered through bio-sand filters and beneficiaries are using it for drinking and cooking purposes.

B. Concluding Remark

Under PPI Project, during **3rd year (Sept 2020 - Aug 21)** SATHI proposed to develop & distribute total 65 Nos. Bio-Sand Filters in 05 villages of Morni Hills (Haryana). At the outset, SATHI carried out community awareness- sensitization, beneficiary selection and 20% cash contribution collection activities. After accomplishment of mentioned mobilization activities, SATHI initiated bio-sand filter construction work. Due to remoteness of PPI project villages & quality concerns, SATHI constructed concrete BSF at its Thakurdwara campus. After construction, testing & finishing, filters were transported to PPI target villages and installed at respective beneficiary's households. **Till end of Q3 of 3rd year, SATHI successfully installed 65 no. filters in 05 PPI villages. i.e. Sharla Bhiwar, Sonthal Chan, Badyal Gadyon, Maanana - Dhaaman & Kharag of Morni hills region of Haryana state.** Besides filter installation, SATHI has also distributed IEC material (Brochure, Pamphlets) to target families. Beneficiary families are also trained on O&M of concrete filters. If some technical problems regarding filter use persist, it is rectified by SATHI team. To ensure regular use of filter among beneficiaries, SATHI team conducts monthly/quarterly follow – up visit in project region.